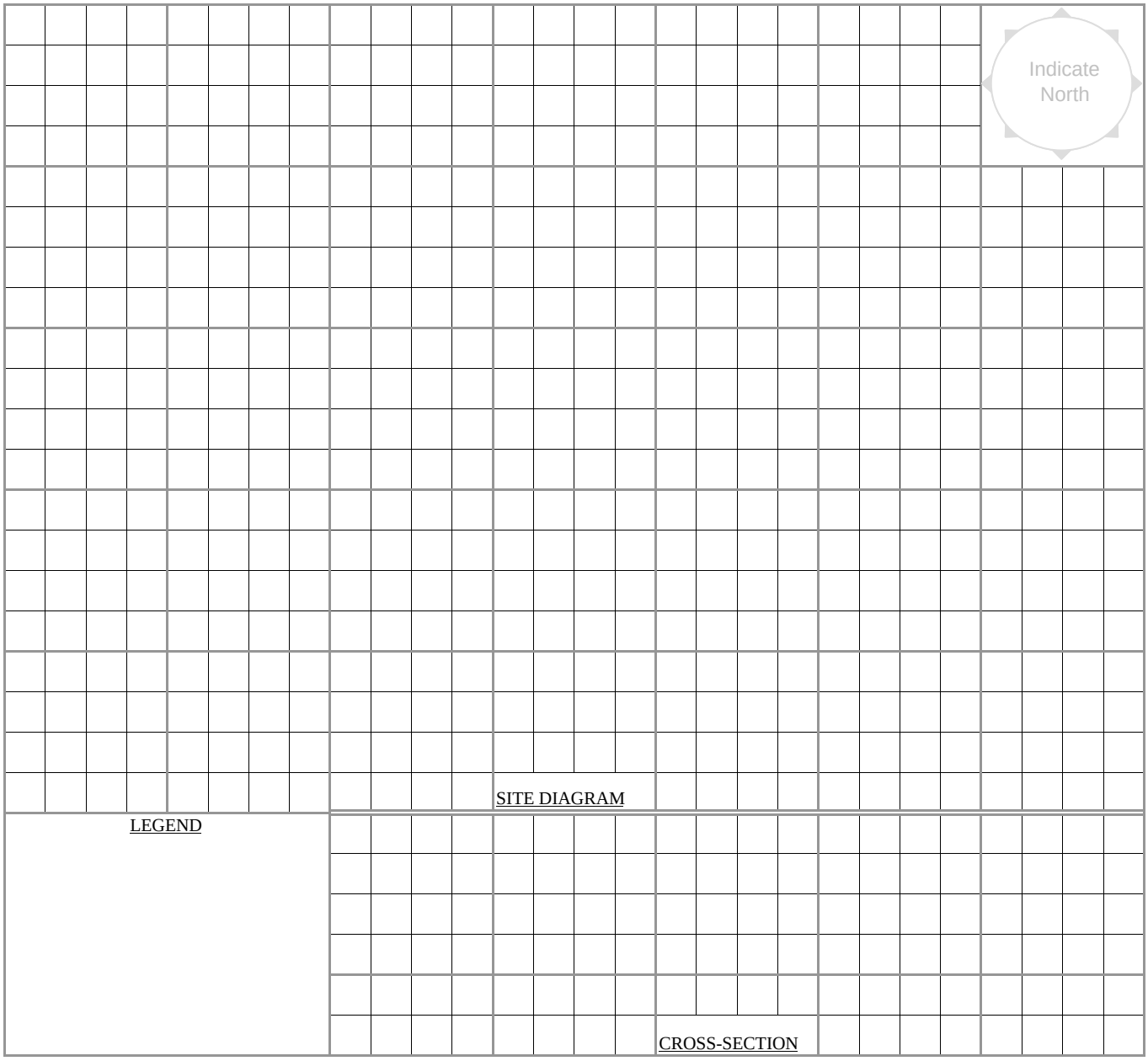
OFFICIAL USE - APPLICATION # _____

SITE EVALUATION for ONSITE SEWAGE SYSTEM

Property Owner:			Date:
Site Address:		Mailing Address :	
	, MO		
Subdivision, Lot:		Day( ) -	Evening( ) -
County:		Legal Location: 1/4 1/4 1/4 ,S ,T ,R	
Residence - # Bedrooms:	# People	Latitude: _____	Longitude: _____
Business - Type:	Design flow: gpd; System is: New	Replacement	Repair



Site Diagram and Cross-Section : Show relative location of buildings, wells, roads, rock outcrops, depressions, sinkholes, location of soil observations, etc. Indicate the evaluated area(s) and direction of slope. (Property lines, easements, buried utilities, etc., are as observed, or as reported by property owner)

SOIL PROFILE DESCRIPTION

Owner:_____ Date:_____

SOIL CHARACTERISTICS Excavation Depth:_____ Pit (required for new installation) or Core #:_____

Vegetation:_____ Parent Material:_____

Suitability (S, PS, U)	Horizon		Munsell Color (moist)	Redoximorphic Features [2]	Texture		% Coarse Fragments by volume		Consistence [4]	Structure [5]	Roots /Pores [6]	Shrink /Swell	Soil Group	Application Rate	
	Designation	Depth / Boundary [1]			USDA [3]	% Clay	<3"	>3"						Conv. (Table 13)	LPP (Table 14)

Notes_____

_____

_____

_____

Notations used on Soil Profile Description

[1] **Boundary** distinctness: A-abrupt, C-clear, G-gradual; topography: S-smooth, W-wavy, I-irregular;

[2] **Redox Features** Report low chroma Munsell colors and iron and manganese concentrations indicative of soil drainage limitations;

[3] **Texture** s-sand, ls-loamy sand, sl-sandy loam, l-loam, sil-silt loam, si-silt, scl-sandy clay loam, cl-clay loam, sicl-silty clay loam, sc-sandy clay, sic-silty clay, c-clay; Designate estimated clay content for all horizons;

[4] **Consistence** (report moist consistence) moist: fr-friable, fi-firm, vfi-very firm; wet: ss-slightly sticky, s-sticky, vs-very sticky and sp-slightly plastic, p-plastic, vp-very plastic; dry: sh-slightly hard, h-hard, vh-very hard;

[5] **Structure** grade: 1-weak, 2-moderate, 3-strong; size: f-fine (thin if platy), m-medium, c-coarse (thick if platy); shape: ABK-angular blocky, SBK-subangular blocky, GR-granular, PL-platy, PR prismatic, MA-massive;

[6] **Roots/Pores** abundance: f-few, c-common, m-many; size: vf-very fine, f-fine, m-medium, c-coarse.

SITE CLASSIFICATION for
ONSITE SEWAGE SYSTEM – 19 CSR 20-3.060(2) & (7)

Owner: Pit/Core #: Date:

Suitability See recommendations below S – Suitable; PS – Provisionally Suitable; U – Unsuitable; for conventional system.

_____	**LANDSCAPE POSITION:**_____	Slope aspect:_____
	Flooding frequency: None ☐ Rare ☐ Occasional ☐ Frequent ☐	Surface depression(s) in evaluated area?___
_____	**& TOPOGRAPHY** Percent Slope:_____	Slope Type: Uniform ☐ Complex ☐
	Shape across (contour):_____	Shape down (profile):_____
	SOIL CHARACTERISTICS (See Profile Description for details)	
_____	_____**TEXTURE** to a depth of_____inches	Depth of unsuitable texture _____inches
_____	_____**STRUCTURE** to a depth of_____inches	Depth of unsuitable structure _____inches
_____	**SOIL DRAINAGE** Type of water table:_____	Depth to water table_____inches
_____	Surface drainage limitations:_____	Runoff slope length_____feet
_____	**SOIL THICKNESS** Depth of bedrock:_____inches	Rock outcrops?_____
_____	**RESTRICTIVE HORIZON** Type:_____	Depth:_____ Thickness:_____
_____	**AVAILABLE SPACE** Estimated space available:_____	
	Adequate for a conventional system?_____ an alternative system?_____	replacement area?_____
	OTHER FACTORS Note any environmental hazards:_____	
	High groundwater contamination potential? (If yes, indicate reason):_____	
	Sinkhole ☐ Rapid permeability ☐ Depth to highly permeable bedrock ☐ Fill material /depth ☐ _____	
_____	**OVERALL** Notes:_____	

Overall site classification will be determined by the lowest of the uncorrectable characteristics.

- **S** An overall site classification of **suitable** indicates soil and site conditions favorable for the operation of a conventional absorption system.
- **PS** Sites classified as **provisionally suitable** require some modifications and careful planning, design, and installation for a conventional system or alternative system to function satisfactorily.
- **U** Sites originally classified as **unsuitable** may possibly be reclassified as **provisionally suitable** according to subsection (7)(K).
- An **unsuitable** site may be used for soil absorption systems, provided engineering, hydrogeologic and soil studies indicate to the administrative authority that a conventional or alternative system could be expected to function satisfactorily. These sites may be reclassified as **provisionally suitable** upon meeting the requirements of the administrative authority according to subsection (6)(K).

Recommendations* associated with Provisionally Suitable or Unsuitable classifications:

Trenches must not be dug when wet to prevent damaging soil/trench surfaces.

Surface water diversion is needed.

An interceptor drain should be installed upslope at a depth of inches.

Shallow or modified shallow placed trenches should be installed at a depth of inches.

An alternative/engineered system is needed to overcome site limitations.

Owner: Date

Comments/Recommendations

*Recommendations are to assist the property owner, and their agents in complying with the standards, and are subject to approval by the administrative authority.

I, the undersigned, hereby certify that the site evaluation was made in accordance with the requirements of Sections 701.025-701.059 RSMo and 19 CSR 20-3.060 and 19 CSR 20-3.080, and that the data recorded is correct to the best of my knowledge.

Print name OSE ID # Signature Date

Important Recommendations for Installers and Homeowners:

Protect the absorption area before and after construction. Do not drive over or store excavated materials on field area etc.

Shallow placed absorption systems utilize more permeable and better-aerated soil horizons.

Do not install soil absorption system when soil is wet.

Redirect surface water, house guttering, and foundation drains away from absorption field.

Establish & maintain adequate vegetative cover over the field.

Regularly inspect, maintain, and pump your sewage system.

Install water saving devices & practice water conservation.

Check for and repair any water leaks as soon as discovered.

Spread out water use, such as laundry, throughout the week.

Restrict garbage disposal use.

Do not put fats or grease into the sewage system.

Keep chemicals and hazardous wastes out of your system.

Use disinfectants and high strength cleaners sparingly.

Do not plan any building improvements, patios, etc. near the sewage system or repair area.

Minimum Set-Back Distances
Based on **19 CSR 20-3.060(1)(D) Table 1**
[See also (6)(D) for lagoons]

Minimum Distance from	Sewage Tank	Disposal Area	Lagoons
	(feet)	(feet)	(feet)
Private water supply well	50	100	100
Public water supply well	300	300	300
Cistern	25	25	25
Spring	50	100	100
Classified stream or lake	50	50	50
Stream or open ditch	25	25	25
Property lines	10	10**	75
Building foundation	5	15	[100]
Basement	15	25	[100]
Swimming pool	15	15	
Pressure water line	10	10	10
Suction water line	50	100	100
Upslope interceptor drain	-	10	
Downslope interceptor drain	-	25	
Embankment or cuts	-	20	
Edge of sink holes	50	100	500
Other absorption system	-	20	20

**Recommend 25 feet from downslope property line.

(Rev 5/15/06))